

# RADION receiver SD

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Invented for life



- ▶ Dual internal antennas provide spatial and polar RF signal reception for high reliability
- ▶ Cover and wall tamper protection
- ▶ Multiple device enrollment options as well as RF diagnostics ensure efficient and effective installation
- ▶ Supports supervision of wireless points (504), keyfobs (1000), and repeaters (8)
- ▶ External status LEDs

RADION wireless from Bosch provides the range, scalability and exceptional battery life required to ensure reliable performance and superior quality. Advanced diagnostics and multiple device enrollment options make installation and maintenance simple and cost effective. With a complete line of peripherals, RADION provides the flexibility for virtually any application requirement.

## System overview

The B810 is a wireless receiver that connects RADION wireless peripherals such as the motion and specialty detectors, keyfobs, panic buttons, door window contacts, repeaters, and more, to supported Bosch control panels using the SDI2 Bus connection. The receiver supports RF communication at 433.42 MHz. This frequency features improved penetration, reflection, and refraction of signal for superior range, and reliability. The receiver also features dual antennas to achieve spatial and polar diversity to further improve RF communication reliability. Enclosed within the receiver housing for higher security, the receiver is equipped with tamper protection, and

detects and reports radio frequency interferences. The receiver supports supervision of wireless points (504), key fobs (1000), and repeaters (8). The receiver can be easily accessed and configured for a compatible control panel using the address switch on the back of the receiver housing. The receiver address switch provides a single-digit setting for the receiver's address, allowing for ease of installation.

## Functions

The receiver uses the RADION wireless protocol which supports:

- SDI2 bus communication
- Tamper input processing
- RF interference (jamming) detection and reporting
- Signal strength and margin reporting
- Enroll Device Database management

### Address switch addressing

Use the address switch to easily assign a bus address or setup during installation.

### Easy installation

The sliding self-locking enclosure has an integrated bubble level and a custom gap-free, lift gate style terminal block to make installation easier, faster, and more reliable.

**LED display**

The LED provides status and troubleshooting information about the receiver and its connection.

**RF interference (jamming) detection and reporting**

The receiver detects and reports interference jamming when the ambient noise level is above jamming thresholds for a continuous period of 20 seconds.

**Communications**

RF packet information is received through the use of two spatial and polar diversity antennas. The receiver then transmits a 4-bit sequence of information back to the control panel for status changes.

**Wall and cover tamper switch**

The receiver transmits a tamper signal when someone removes the device from its base, or pulls it away from the wall.

**Certifications and approvals**

Region	Certificate
US	UL 365 – Police Station Connected Burglar Alarm Units and Systems UL 609 – Local Burglar Alarm Units and Systems UL 636 – Holdup Alarm Units and Systems UL 985 – Household Fire Warning System Units UL 1023 – Household Burglar Alarm System Units UL 1076 – Proprietary Burglar Alarm Units and Systems UL 1610 – Central Station Burglar Alarm Units FCC Part 15 Classified to ANSI/SIA CP01-2010

Region	Certification
Australia	RCM
USA	UL 20121227-BP1448; UL 1076 - Proprietary Burglar Alarm Units and Systems; UL 1610 – Central-Station Burglar Alarm Units; UL 1023- Household Burglar Alarm System Units; UL 985- Household Fire Warning System Units; UL 609- Local Burglar Alarm System Units; UL 365- Police Station Connected Burglar Alarm System Units; UL 636-Holdup Alarm Units and Systems; ANSI/SIA CP-01-2010 – Control Panel Standard – Features for False Alarm Reduction Certificate of Compliance
	CSFM see our website

**Installation/configuration notes****Mounting considerations**

You can mount the wireless receiver in residential, commercial or industrial locations in which a compatible control panel is already installed. The installation of the wireless receiver should be at a distance no greater than 243 m (800 ft) from the control panel.

**Wiring considerations**

The wireless receiver connects to a control panel using the SDI2 connections (PWR, A, B, COM). Use appropriate gauge wires from the receiver to the control panel when connecting the wiring to the terminal block of the receiver.

**Parts included**

Quantity	Component
1	Wireless receiver
1	Hardware pack
1	Installation guide

**Technical specifications****Properties**

Dimensions:	139.70 mm x 209.60 mm x 31.80 mm (5.50 in x 8.25 in x 1.25 in)
Wiring Distance:	243 m (800 ft)
Wiring Gauge	0.65 mm (22 AWG) to 2.0 mm (18 AWG)
Tamper detection	Transmits a tamper switch signal when the unit is removed from its base, or the mounting surface.
Compatibility:	GV4 Series (D9412GV4, D7412GV4 v2.xx or higher) control panels B5512/B4512/B3512 control panels RFDL-11-A motion detector RFDW-SM-A standard door/window contact RFDW-RM-A recessed door/window contact RFRP-A repeater RFPR-12-A motion detector RFPR-C12-A motion detector (curtain) RFUN-A universal transmitter RFKF-FB-A 4-button keyfob RFKF-TB-A 2-button keyfob RFPB-TB-A 2-button panic RFPB-SB-A single button panic RRGB-A glass break

**Power**

Power/Voltage:	10-14 VDC, 12 VDC nominal
Maximum Current Draw:	70 mA
Frequency:	433.42 MHz

**Environmental Considerations**

Operating Environment:	0°C to +49°C (+32°F to +120°F)
Relative Humidity:	Up to 93% non-condensing
Use:	Intended for indoor use.

## Ordering information

### **RADION receiver SD (SDI2, 433.42 MHz)**

For use with compatible SDI2 bus control panels.

Order number **B810**

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## RF-HCT-4UL-FOB 4 Channel DSRF Compatible Fob



- 12 month warranty
- Slide cover
- Stainless steel finish
- Designed in Australia to meet local requirements

### Overview

The RF-HCT-4UL-FOB is a fully DSRF compatible four channel remote control. This product provides an alternative to the existing RF3334E fob. This product is only suitable for use with the RF3212e version of the DSRF receiver.

This keyfob has a low battery indicator. If the delay is approximately 1 second before transmission the battery needs replacing. This is also indicated by a slow flash from the blue LED prior to transmission.

### Features



### Technical Specifications

Operating Voltage	1.5 to 3.6V
Standby Current	<1uA
Transmit Current	10mA
Frequency	433.425Mhz
Battery	CR2032
Low Battery Trip	2.8V
Battery Life	~ 2 yrs
Compliance	EN300220
Weight	~ 25g